COMBINED DECLARATION AND POWER OF ATTORNEY

A	s a	belov	v named	inventor,	I	hereby	declare	that:
---	-----	-------	---------	-----------	---	--------	---------	-------

This declaration	is of the follo	wing type:
	original divisional	

[] continuation [] continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

ELECTRON BEAM LITHOGRAPHY SYSTEM HAVING IMPROVED ELECTRON GUN

SPECIFICATION IDENTIFICATION

The specification of which:

[]	is attached hereto
[X]	was filed on January 22, 2002, under Serial No. 10/055,869, executed on even date herewith
or	
[] Exp	ress Mail No. @(as Serial No. not yet known)
	and was amended on (if applicable)
[]	was described and claimed in PCT International Application No.
filed on	and as amended under PCT Article 19 on

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

[]	In	compliance	with	this	duty	there	is	attached	an	Information	Disclosure	Statement	in
		with 37 CF											

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or any
foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at
least one country other than the United States of America listed below, and have also identified below any foreign
application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one
country other than the United States of America filed by me on the same subject matter having a filing date before
that of the application(s) of which priority is claimed.

count	ry other	for pate than the	nt or inventor's certific	cate or any PCT interrica filed by me on the solaimed.	ational application	n(s) design	nating a	t least on
	[]	No s	uch applications have b	een filed.				
	[X]	Such	applications have been	filed as follows:				·
A.	Prior and a	foreign ny prio	/PCT application(s) firity claims under 35 U	led within 12 mos. (6 .S.C. §119	mos. for design	n) prior to	this ap	plication
Coun	itry/PCT		Application No	Date Fil	ed	Priority C	Claimed	
	٠					[] Yes [] Yes [] Yes	[] N [] N	i o
В.		reign ap applicati		ed more than 12 mos.	(6 mos for desig	gn) prior to	o this	
	Count Applic Filing	ation No	· :					
C.	Applic	ation No	l applications filed wit (a) : 06/265,272 muary 31, 2001	hin 12 months prior t	o this U.S. Appl	ication		
			PRIORIT	TY CLAIM (35 U.S.C	. §120)			
internat subject manner informa likelihoo issue as	tional ap matter of provide ation that od that as a pates	plication of each d by the t is mate reasons nt) which	(s) designating the United the claims of this at first paragraph of Title rial to the examination the Examiner would contain the contains the contai	ted States Code, §120 ited States of America pplication is not disclose 35, United States Coof of this application (nationsider it important in the filing date of the properties of the propert	that is/are listed used in that/those de, §112, I ackno mely, information deciding whether	l below and prior appowledge the modern the control of the control	d, insoft lications duty to ere is so	far as the (s) in the o disclose ubstantial ication to
	[X]		h applications have bee pplications have been fi					
	Serial 1		Filing Date	Patented Pending	StatusAbandor	ned		

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Joseph Bach	Registration No. 37,771
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
Greg Leitich	Registration No. 39,745

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061 Legal Affairs Dept. Applied Materials, Inc. P. O. Box 450A Santa Clara, CA 95052. Greg Leitich 512-469-0063

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or firs	st inventor: Andres Fernadez		
Inventor's signature: Residence: Unite Post Office Address:	d States 6522-C Cottonwood Circle Dublin, CA 94568	Date:	4/26/02
		Country of Cit	tizenship: U.S.A.
Full name of second inv	entor: Marian Mankos		
Inventor's signature:		Date:	
Residence: United Stat	es		
Post Office Address:	333 Presidio Ave #3		
	San Francisco, CA 94115		

Inventor's signature:		Date:
	d States	
Post Office Address:	2321 Webster Street	
	Berkeley, CA 94705	
		Country of Citizenship: U.S.A
Full name of fourth inv	entor: Paul C. Allen	
Inventor's signature:	entor: Paul C. Allen	Date:
Inventor's signature:	entor: Paul C. Allen I States	Date:
Inventor's signature:	l States	Date:
Inventor's signature: Residence: United Post Office Address: 10	l States	Date:

COMBINED DECLARATION AND POWER OF ATTORNEY

As a	below	named	inventor,	I	hereby	declare	that:
------	-------	-------	-----------	---	--------	---------	-------

[X]	original
[]	divisional
[]	continuation
[]	continuation-in-part

This declaration is of the following type:

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

ELECTRON BEAM LITHOGRAPHY SYSTEM HAVING IMPROVED ELECTRON GUN

SPECIFICATION IDENTIFICATION

The specification of which:

[] is attached hereto	
[X] was filed on January 22, 2002, under Serial No. 10/055,869, execute	d on even date herewith:
or	,
[] Express Mail No. @(as Serial No. not yet known)	
and was amended on (if applicable)	
was described and claimed in PCT International Application No.	
filed on and as amended under PCT Article 19 on	•
or [] E	was filed on January 22, 2002, under Serial No. 10/055,869, execute Express Mail No. @(as Serial No. not yet known) and was amended on (if applicable) was described and claimed in PCT International Application No.

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

[]	In	compliance	with	this	duty	there	is	attached	an	Information	Disclosure	Statement	ir
a	ccordar	ice	with 37 CFI	R §1.	98.									

foreign ap least one applicatio country of	I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.					
[] 1	No such applications have bee	n filed.			
C	X] S	Such applications have been fi	led as follows:		٠,	
A. P	rior for nd any p	eign/PCT application(s) file priority claims under 35 U.S	d within 12 mos. (6 m S.C. §119	os. for design)	prior to this application,	
Country/	PCT	Application No	Date Filed	<u>]</u>	Priority Claimed	
				ĺ] Yes [] No] Yes [] No] Yes [] No	
U. Co A _I Fii	.S. application date	1 No:				
Ap	plication	onal applications filed within 60/ 1 No: 06/265,272 1 January 31, 2001	in 12 months prior to t	this U.S. Applic	ation	
		PRIORITY	CLAIM (35 U.S.C. §	(120)		
I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.						
[X]		such applications have been th applications have been file				
Ser	ial No.	Filing Date	Patented Pending	_Status Abandone	d	

Abandoned

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Registration No. 25,610
Registration No. 33,217
Registration No. 25,226
Registration No. 29,301
Registration No. 37,165
Registration No. 35,412
Registration No. 37,771
Registration No. 25,436
Registration No. 44,713
Registration No. 39,745

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061 Legal Affairs Dept. Applied Materials, Inc. P. O. Box 450A Santa Clara, CA 95052. Greg Leitich 512-469-0063

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or fir	rst inventor: Andres Fernadez	
Inventor's signature:		Date:
Residence: Unit	ed States	
Post Office Address:	6522-C Cottonwood Circle Dublin, CA 94568	
		Country of Citizenship: U.S.A.
Full name of second in	ventor: Marian Mankos	
nventor's signature:	m	Date: 5/16/02
Residence: United Sta	ntes // /)	
Post Office Address:	333 Présidio Ave #3	
	San Francisco, CA 94115	

Inventor's signature:		Date:		
Residence: Unite	ed States			
Post Office Address: 2321 Webster Street		<i>3</i>		
	Berkeley, CA 94705	•		
		Country of Citizenship: U.S.A		
Full name of fourth inv	ventor: Paul C. Allen	Date:		
Inventor's signature:	ventor: Paul C. Allen	Date:		
Inventor's signature:	d States	Date:		
Inventor's signature: Residence: Unite Post Office Address: 1	d States	Date:		

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:
This declaration is of the following type:
[X] original [] divisional [] continuation [] continuation-in-part
INVENTORSHIP IDENTIFICATION
My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if pluraness are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:
TITLE OF INVENTION
ELECTRON BEAM LITHOGRAPHY SYSTEM HAVING IMPROVED ELECTRON GUN
SPECIFICATION IDENTIFICATION
The specification of which:
[] is attached hereto [X] was filed on January 22, 2002, under Serial No. 10/055,869, executed on even date herewith or [] Express Mail No. @(as Serial No. not yet known) and was amended on (if applicable) [] was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on
ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56,
and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
[] In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or a foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating least one country other than the United States of America listed below, and have also identified below any fore application(s) for patent or inventor's certificate or any PCT international application(s) designating at least country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.
--

coun	my omer u	for patent or inventor's certificate of han the United States of America file ication(s) of which priority is claimed	any PCT international ap d by me on the same subje	oplication(s) designating at least one continuous matter having a filing date before
	[]	No such applications have been file	ed.	
	[X]	Such applications have been filed a	as follows:	
A.	Prior f	Foreign/PCT application(s) filed wi y priority claims under 35 U.S.C.	thin 12 mos. (6 mos. for §119	design) prior to this application,
Cou	ntry/PCT	Application No	Date Filed	Priority Claimed
				[] Yes [] No [] Yes [] No [] Yes [] No
В.	All fore U.S. ap	ign application(s), if any, filed mon	re than 12 mos. (6 mos fo	r design) prior to this
•	Country Applicat Filing da	ion No:		
C.	Applicat	risional applications filed within 12 (a) ion No: 06/265,272 ite: January 31, 2001	months prior to this U.S	. Application
		PRIORITY CL	AIM (35 U.S.C. §120)	
subject manner informa likelihoo issue as	matter of provided ation that is od that a read a patent)	e benefit under Title 35, United Statication(s) designating the United Stateach of the claims of this application by the first paragraph of Title 35, Us material to the examination of this easonable Examiner would consider which occurred between the filing that of this application.	on is not disclosed in that nited States Code, §112, I application (namely, infor- it important in deciding w	e listed below and, insofar as the t/those prior application(s) in the acknowledge the duty to disclose rmation where there is substantial thether to allow the application to
		No such applications have been filed Such applications have been filed, as	follows:	

	Transaction and the second	moa, as follows.		
6			Status	
Serial No	. Filing Date	Patented Pending	Abandoned	

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa Donald Verplancken Lawrence Edelman Michael B. Einschlag Raymond Kam-On Kwong James C. Wilson Joseph Bach Robert W. Mulcahy Walter Benjamin Glenn	Registration No. 25,610 Registration No. 33,217 Registration No. 25,226 Registration No. 29,301 Registration No. 37,165 Registration No. 35,412 Registration No. 37,771 Registration No. 25,436 Registration No. 44,713
Walter Benjamin Glenn Greg Leitich	Registration No. 44,713 Registration No. 39,745

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061 Legal Affairs Dept. Applied Materials, Inc. P. O. Box 450A

Greg Leitich 512-469-0063

Santa Clara, CA 95052.

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or fir	st inventor: Andres Fernadez		
Inventor's signature:		Date:	
Residence: Unite	ed States		
Post Office Address:	6522-C Cottonwood Circle Dublin, CA 94568		
	<i>:</i>	Country of Citizenship: U.S.A.	
Full name of second inv	ventor: Marian Mankos		
Inventor's signature:		Date:	
Residence: United Sta	tes		
Post Office Address:	333 Presidio Ave #3		

San Francisco, CA 94115

Full name of third inventor: Jeffrey S. Sullivan	
Inventor's signature:	Date: 4/23/02
Residence: United States	
Post Office Address: 2321 Webster Street	
Berkeley, CA 94705	
•	Country of Citizenship: U.S.A
Full name of fourth inventor: Paul C. Allen	, · · · · · · · · · · · · · · · · · · ·
Inventor's signature:	Date:
Residence: United States	
Post Office Address: 10500 SW 16 Ct.	
Post Office Address: 10500 SW 16 Ct. Beaverton, OR 97007	

	COMBINED DECLARATION AND POWER OF ATTORNEY
As a below named inve	ntor, I hereby declare that:
This declaration is of the	e following type:
[X] origina [] divisio [] continu [] continu	nal
	INVENTORSHIP IDENTIFICATION
original, first and sole in	ce address and citizenship are as stated below next to my name. I believe I am the ventor (if only one name is listed below) or an original, first and joint inventor (if plura of the subject matter which is claimed and for which a patent is sought on the invention
	TITLE OF INVENTION
ELECTRON BE	AM LITHOGRAPHY SYSTEM HAVING IMPROVED ELECTRON GUN
	SPECIFICATION IDENTIFICATION
The specification of whic	n:
[X] was file or [] Express Mail and was [] was des	ed hereto d on January 22, 2002, under Serial No. 10/055,869, executed on even date herewith; No. @(as Serial No. not yet known) amended on (if applicable) cribed and claimed in PCT International Application No and as amended under PCT Article 19 on
ACKNOW	LEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
I hereby state that I have claims, as amended by any	reviewed and understand the contents of the above-identified specification, including the amendment referred to above.
I acknowledge the duty to Title 37, Code of Federal	disclose all information I know to be material to patentability in accordance with Regulations, §1.56,
and which is material to likelihood that a reasonabl issue as a patent, and	the examination of this application; namely, information where there is a substantial e Examiner would consider it important in deciding whether to allow the application to
[] accordan	In compliance with this duty there is attached an Information Disclosure Statement in ce with 37 CFR §1.98.

foreig least o applic countr	n applicatione countraction(s) for the countraction for the countraction for the countraction to the countraction countraction for the	foreign priority benefits under Title tion(s) for patent or inventor's certificate by other than the United States of Amor or patent or inventor's certificate or than the United States of America filed cation(s) of which priority is claimed	cate or of any PCT internerica listed below, and hat any PCT international apon by me on the same subjections.	national application(s) designating at ave also identified below any foreign oplication(s) designating at least one
	[]	No such applications have been file	d.	
	[X]	Such applications have been filed as	follows:	
A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119				
Coun	try/PCT	Application No	Date Filed	Priority Claimed
				[] Yes [] No [] Yes [] No [] Yes [] No
B. All foreign application(s), if any, filed more than 12 mos. (6 mos for design) prior to this U.S. application				
	Country Applica Filing d	tion No:		
C.	US Pro	visional applications filed within 12	months prior to this U.S	S. Application
		ion No: 06/265,272 ate: January 31, 2001		
PRIORITY CLAIM (35 U.S.C. §120)				
internati subject manner informat likelihoo issue as	ional applematter of provided tion that a contract a patent	e benefit under Title 35, United State lication(s) designating the United State each of the claims of this application by the first paragraph of Title 35, United by the first paragraph of Title 35, Units material to the examination of this reasonable Examiner would consider which occurred between the filing a date of this application.	tes of America that is/ar on is not disclosed in that nited States Code, §112, application (namely, info it important in deciding v	e listed below and, insofar as the at/those prior application(s) in the I acknowledge the duty to disclose ormation where there is substantial whether to allow the application to
		No such applications have been filed Such applications have been filed, as	follows:	
			Status	·

Patented Pending

Abandoned

Serial No.

Filing Date

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Joseph Bach	Registration No. 37,771
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
Greg Leitich	Registration No. 39,745

Send correspondence to:

Direct telephone calls to:

Patent Counsel, MS/2061 Legal Affairs Dept. Applied Materials, Inc. P. O. Box 450A Santa Clara, CA 95052. Greg Leitich 512-469-0063

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or fir	st inventor: Andres Fernadez			
Inventor's signature:			Date:	
Residence: Unite	ed States			_
Post Office Address:	6522-C Cottonwood Circle Dublin, CA 94568			
			Country of Citizenship: U.S.A.	
Full name of second inv	ventor: Marian Mankos	œ.		
Inventor's signature:	•		Date:	
Residence: United Sta	tes			_
Post Office Address:	333 Presidio Ave #3			

San Francisco, CA 94115

Full name of third inve	entor: Jeffrey S. Sullivan	-
Inventor's signature:	<u> </u>	Date:
Residence: Unite	d States	
Post Office Address:	2321 Webster Street	•
	Berkeley, CA 94705	
		Country of Citizenship: U.S.A
Full name of fourth inventors Paul C. Allen Inventor's signature: Residence: United States Post Office Address: 10500 SW 16lCt. Beaverton, OR 97007		Date: April 29, 2002

Country of Citizenship: U.S.A.